

# Pantry Tracker: Smart Food Expiry Manager

Hackathon Project Presentation

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# Problem Statement

## The Challenge

- Households frequently waste food due to expired pantry items.
- No efficient system to track expiry dates.
- Manual logging is tedious and often forgotten.

## Pantry Tracker Website

- Add, edit, and delete pantry items.
- Alert users before food expires.
- Includes login system and searchable dashboard.

# Tech Stack

| Layer    | Technology            |
|----------|-----------------------|
| Frontend | HTML, CSS, JavaScript |
| Backend  | Python (Flask)        |
| Database | SQLite                |

# Key Features

- User login and authentication
- Add items with name, quantity, and expiry date
- Search, view, and delete options
- Clean and responsive UI

# Screenshots: Login or Register



## Login

Email:

ashley.sharan@gmail.com

Password:

\*\*\*\*\*

Login

Don't have an account? [Register](#)

Login Page



## Register

Name:

Ashley

Email:

ashley.sharan@gmail.com

Password:

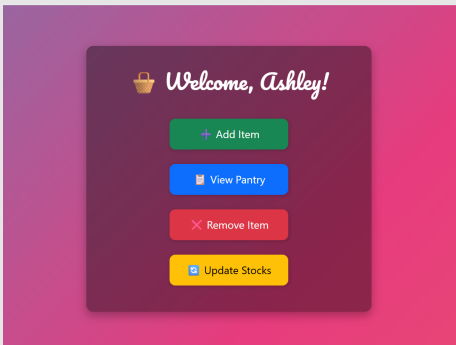
\*\*\*\*\*

Create Account

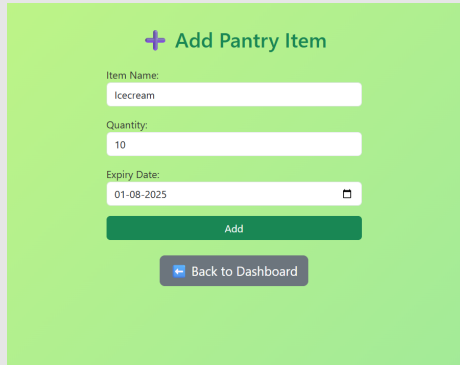
Already registered? [Login here](#)

Register page

# Screenshots (Sample)








Dashboard view



Add pantry item


# Screenshots (Sample)

 Your Pantry Items

| Item         | Quantity | Expiry Date | Status  |
|--------------|----------|-------------|---|
| Kinnow       | 10       | 2025-08-01  |  Expiring Soon |
| Chocolate    | 25       | 2025-08-30  |  Fresh         |
| bitter gourd | 1kg      | 2025-07-20  |  Expired       |
| milk         | 2l       | 2025-07-30  |  Expiring Soon |

[Back to Dashboard](#)

View pantry

 Remove Pantry Item

Select Item to Remove:

[Remove](#)

[Back to Dashboard](#)

Remove item



# Screenshots (Sample)

Update Pantry Stock

| Item      | Current Quantity | New Quantity                    |
|-----------|------------------|---------------------------------|
| Icecream  | 10               | <input type="text" value="10"/> |
| Chocolate | 25               | <input type="text" value="25"/> |
| milk      | 21               | <input type="text" value="1L"/> |

[Save Changes](#) [Back](#)

Update pantry stock

✖ Remove Pantry Item

Select Item to Remove

[Remove](#)

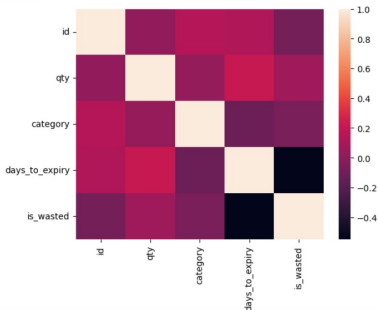
[Back to Dashboard](#)

Remove item

# ML Screenshots

```
[ ] import seaborn as sns  
sns.heatmap(d.corr())
```

(In [ ]): <Axes: >



```
[ ] lr.predict([[1,4.66,1,0]])
```

```
↳ /usr/local/lib/python3.11/dist-packages  
warnings.warn(  
    array([1])
```

# ML Screenshots

```
[ ] from sklearn.linear_model import LogisticRegression
lr=LogisticRegression()
lr.fit(xtrain,ytrain)
```



LogisticRegression

```
import pandas as pd
import numpy as np
url="https://raw.githubusercontent.com/Sankari-53836/food-waste-ml/refs/heads/main/food_waste_data_sample.csv"
df=pd.read_csv(url)
d
```

# Future Scope

- Mobile app version (Flutter / React Native)
- Weekly usage reports and visual charts
- Barcode scanner integration
- Expiry alerts with custom thresholds
- Smart recommendations via ML

Built to reduce food waste.

Thank You!